

**Notice of Allowability**

Application No.

10/711,387

Examiner

Mardochee Chery

Applicant(s)

CHOQUETTE ET AL.

Art Unit

2188

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the reply filed on January 29, 2007.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

HYUNG SOUGH  
SUPERVISORY PATENT EXAMINER

3-5-09

**DETAILED ACTION**

***Response to Amendment***

1. This Office Action is in response to applicant's communication filed on January 29, 2007, in response to PTO Office Action mailed on December 18, 2006. The applicant's remarks were considered with the results that follow.
2. In response to PTO Office Action mailed on December 18, 2006, claims 1, 15, and 18 have been amended. No claims have been added or canceled. Consequently, claims 1-20 remain pending.
3. The objection to the disclosure has been withdrawn due to the amendment filed on January 29, 2007.
4. The objection to claim 1 has been withdrawn due to the amendment filed on January 29, 2007.
5. The objection to the Drawings has been withdrawn due to the amendment filed on January 29, 2007.
6. The rejection of claims 15-20 under 35 USC 112, second paragraph, has been withdrawn due to the amendment filed on January 29, 2007.

7. The rejection of claims 1-14 under 35 USC 112 first paragraph has been withdrawn due to the amendment filed on January 29, 2007.

***Allowable Subject Matter***

8. Claims 1-20 are allowed.

9. The following is an examiner's statement of reasons for allowance: After careful consideration, examination and search of the claimed invention, the claimed multi-processor system having cache coherency requests that include a snoop address wherein the snoop address carried over internal interconnect buses comprises a tag portion for matching with a cache tag; a cache-index portion having a cache index for selecting a selected cache set, and an offset portion of data within a selected cache entry, the cache-index portion further comprises a snoop-index portion having a snoop index for selecting a selected snoop set, a chip-select portion, and an interleave portion; the chip-select portion of the cache-index portion of the snoop address selects a selected group of snoop tag partitions in a plurality of snoop tag partitions; wherein the interleave portion of the cache-index portion of the snoop address selects a selected snoop tag partition in the plurality of snoop tag partitions within the selected group of snoop tag partitions; the selected snoop tag partition responds to a cache coherency request having a snoop address and stores a snoop tag in a snoop entry within the selected snoop set selected by the snoop index; other snoop tag partitions do not respond to the cache coherency request, the selected snoop tag partition is selected by a chip-select portion and the interleave portion of the snoop address which are subsets

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of the cache index, whereby processing of snoop requests are partitioned across the plurality of snoop tag partitions by the chip-select portion of the snoop address, in combination with the overall claimed limitations are not taught or anticipated by the prior art when interpreted in light of the specification.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

11. When responding to the office action, Applicant is advised to clearly point out the patentable novelty that he or she thinks the claims present in view of the state of the art disclosed by references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. 1.111(c).

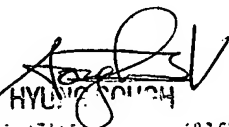
12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mardochee Chery whose telephone number is (571) 272-4246. The examiner can normally be reached on 8:30A-5:00P.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sough can be reached on (571) 272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 16, 2007

  
HYUNG SOUGH  
SUPERVISOR  
3-5-07

  
Mardochee Chery  
Examiner  
AU: 2188